

ER-2 #809 08/16/13

Aircraft: [ER-2 - AFRC #809](#) ([See full schedule](#))

Flight Number: 13-9054

Payload Configuration: SEAC4RS

Nav Data Collected: Yes

Total Flight Time: 7.8 hours

Submitted by: Timothy Moes on 08/16/13

Flight Segments:

From:	EFD	To:	EFD
Date:	08/16/13		
Flight Time:	7.8 hours		
Log Number:	132301	PI:	Kent Shiffer
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		
Comments:	Coordinated ER-2/DC-8 science flight based out of EFD. Objectives were primarily for North American Monsoon. All 15 instruments were installed and working. Aircraft in good shape.		

Flight Hour Summary:

	132301
Flight Hours Approved in SOFRS	166
Total Used	164.6
Total Remaining	1.4

132301 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
08/01/13	13-9048	Check	3	3	163	
08/02/13 - 08/03/13	13-9049	Science	6.5	9.5	156.5	
08/06/13 - 08/07/13	13-9050	Science	8.4	17.9	148.1	
08/08/13	13-9051	Science	7.2	25.1	140.9	
08/12/13	13-9052	Science	7.9	33	133	
08/14/13	13-9053	Science	6	39	127	
08/16/13	13-9054	Science	7.8	46.8	119.2	
08/19/13	13-9055	Science	8.1	54.9	111.1	
08/21/13	13-9056	Science	7.3	62.2	103.8	
08/23/13	13-9057	Science	7.7	69.9	96.1	
08/27/13	13-9058	Science	7.2	77.1	88.9	
08/30/13	13-9059	Science	7.4	84.5	81.5	
09/02/13	13-9060	Science	8.2	92.7	73.3	
09/04/13	13-9061	Science	8.4	101.1	64.9	
09/06/13 - 09/07/13	13-9062	Science	8	109.1	56.9	
09/09/13 - 09/10/13	13-9063	Science	8.1	117.2	48.8	
09/11/13 - 09/12/13	13-9064	Science	7.6	124.8	41.2	
09/13/13	13-9065	Science	8	132.8	33.2	
09/16/13	13-9066	Science	8	140.8	25.2	
09/18/13	13-9067	Science	7.9	148.7	17.3	
09/22/13	13-9068	Science	8.1	156.8	9.2	

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

Related Science Report:

SEAC4RS - ER-2 #809 08/16/13 Science Report

Mission: SEAC4RS

Mission Summary:

Flight Report – SEAC4RS ER-2, **August 16, 2013** (Science flight #3)

Prepared by: Jens Redemann (Jens.Redemann-1@nasa.gov)

Purpose of flight: A NAM survey flight of the South-West United States, followed by a smoke study over Eastern Colorado, finishing with a boundary study of Eastern Texas (mostly DC-8); first two thirds of flight in coordination with the DC-8.

Take-off: 9:10 local (Central DST) (UTC start = 14:10, UTC end = 21:58)

Duration: 7.8 hrs

Notes: Take-off at 9:10 local (Central DST), encountered remnants of MCS near Houston en route to first waypoint. Multiple descents and ascents along the US-Mexico border as planned and across gradient of NAM anticyclone. Changed location of center point of ER-2/DC-8 smoke coordination pattern in flight. Some issues with time coordination - may not have had the DC-8 at lowest altitude until about 30 mins after ER-2 overpass. Some adjustments to flight track and pilot cockpit switch patterns in response to coordination request with NPP satellite overpass at 20:00UT. MMS pattern NW of Houston at 55kft. Communication between flight scientist, ground pilot and pilot excellent, as usual. Need improvement in communicating ER-2 flight plan to ER-2 experimenters the day before flights.

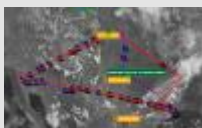
Aircraft and instruments: INMARSAT link issues seem to be improving. Together with Iridium link this allows instrument PIs to monitor the status and health of their instruments. Most instruments appear to have worked nominally as far as limited in-flight and quick-look analyses showed. Some problems with SSFR platform. No aircraft issues. Aircraft ready to go for science flight on August 19, 2013.

Figure1: Flight track of ER-2 (blue) and DC-8 (red) for ER-2 science flight #3, August 16, 2013 overlaid on GOES visible MTS image.

Figure2: Altitude vs time flight plan for science flight #3, August 16, 2013.

Images:

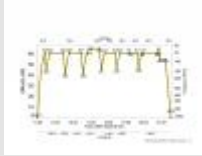
Figure1: Flight track of ER-2 (blue) and DC-8 (red) for ER-2 science



[Read more](#)

Figure 2: Altitude vs time flight plan for test flight #2, August 02,

2013.



[Read more](#)

Submitted by: Jens Redemann on 08/17/13

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